

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PCT04-057	FOR FURTHER ACTION		see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/KR2004/002857	International filing date (<i>day/month/year</i>) 05 NOVEMBER 2004 (05.11.2004)	(Earliest) Priority Date (<i>day/month/year</i>) 05 NOVEMBER 2003 (05.11.2003)	
Applicant SK TELECOM CO., LTD. et al			

This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box No. II)

3. ☐ Unity of invention is lacking (See Box No. III)

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. 4

☐ as suggested by the applicant.

☒ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

b. ☐ none of the figure is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2004/002857

A. CLASSIFICATION OF SUBJECT MATTER**IPC7 H04B 7/26**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 H04B 7/26

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

KR : IPC as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

KIPASS, DELPHION, ESPACENET & Keywords : frequency, assignment, ratio, change and similar terms

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2002/0085523 A1 (LG ELECTRONICS INC.) 4 July 2002 * the whole document *	1 - 46
A	US 2001/0030956 A1 (GOPA CHILLARIGA ET AL.) 18 October 2001 * the whole document *	1 - 46
A	US 2002/0037726 A1 (STANISLAW CZAJA ET AL.) 28 March 2002 * the whole document *	1 - 46
P, A	US 2003/0227897 A1 (MASA AKI OKADA) 11 December 2003 * the whole document *	1 - 46

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:
 "A" document defining the general state of the art which is not considered to be of particular relevance
 "E" earlier application or patent but published on or after the international filing date
 "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
 "O" document referring to an oral disclosure, use, exhibition or other means
 "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
 "&" document member of the same patent family

Date of the actual completion of the international search

22 MARCH 2005 (22.03.2005)

Date of mailing of the international search report

22 MARCH 2005 (22.03.2005)

Name and mailing address of the ISA/KR



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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2004/002857

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2002085523 A1	04-07-2002	KR 2002056829 A	10-07-2002
US 2001030956 A1	18-10-2001	AU 2756201 A	16-07-2001
		WO 0150782 A2	12-07-2001
		WO 0150782 A3	14-02-2002
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		JP 2000201369 A	18-07-2000
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		WO 0193622 A1	06-12-2001
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		EP 1372347 A1	17-12-2003
		JP 2004015697 A	15-01-2004